

SEQUENCE LISTING

<110> CENTRE HOSPITALIER DE L'UNIVERSITE DE MONTREAL (CHUM)
 GAUDREAU, PIERRETTE
 <120> GHRH ANALOGUES
 <130> BCF-001
 <140> US 10/527,598
 <141> 2003-09-17
 <150> US 60/411,340
 <151> 2002-09-18
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 <222> (30 to 34)
 <223> Xaa is any amino acid residue

<400> 22

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa

<210> 23
 <211> 35
 <212> PRT
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 <223> Xaa is any amino acid residue

<400> 23

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa
 35

<210> 24
 <211> 36
 <212> PRT
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<400> 24

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 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa
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<210> 25

<211> 37
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 <222> (30 to 37)
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<400> 25

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa
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<210> 26
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<400> 26

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
1 5 10 15
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20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 27
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<400> 27

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 28
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<400> 28

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 29
<211> 41
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 <222> (21)
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<400> 29

Tyr	Xaa	Asp	Ala	Ile	Phe	Thr	Ala	Xaa	Xaa	Arg	Lys	Val	Leu	Ala	Gln
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Leu	Ser	Ala	Arg	Xaa	Lys	Leu	Gln	Asp	Ile	Met	Ser	Arg	Xaa	Xaa	Xaa
			20				25						30		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa						
		35					40								

<210> 30
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 <222> (10)
 <223> Xaa is Tyr or D-Tyr

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 <222> (21)
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<220>
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 <222> (30 to 42)
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<400> 30

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 31

<211> 43

<212> PRT

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<223> Xaa is Ser or Ala

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<222> (10)

<223> Xaa is Tyr or D-Tyr

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<222> (21)

<223> Xaa is Lys or D-Lys

<220>

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<222> (30 to 43)

<223> Xaa is any amino acid residue

<400> 31

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 32

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<400> 32

Tyr Xaa Asp Ala Ile Phe Thr Ala Xaa Xaa Arg Lys Val Leu Ala Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 33
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<400> 33

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg
20 25

<210> 34
<211> 30
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<400> 34

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Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa
 20 25 30

<210> 35
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 <222> (21)
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<220>
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 <222> (30 and 31)
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<400> 35

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa
 20 25 30

<210> 36
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<400> 36

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
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 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

<210> 37
 <211> 33
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<222> (30 to 33)

<223> Xaa is any amino acid residue

<400> 37

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa

<210> 38

<211> 34

<212> PRT

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<222> (30 to 34)

<223> Xaa is any amino acid residue

<400> 38

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa

<210> 39

<211> 35

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<220>

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<222> (30 to 35)
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Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa
 35

<210> 40
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<400> 40
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 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa

	20	25	30
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Xaa Xaa Xaa Xaa
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<210> 41
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<400> 41

Tyr	Xaa	Asp	Ala	Ile	Phe	Thr	Xaa	Xaa	Xaa	Arg	Lys	Val	Leu	Xaa	Gln
1				5					10					15	

Leu	Ser	Ala	Arg	Xaa	Lys	Leu	Gln	Asp	Ile	Met	Ser	Arg	Xaa	Xaa	Xaa
			20					25					30		

Xaa Xaa Xaa Xaa Xaa
 35

<210> 42
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<223> Xaa is D-Tyr

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<220>
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<222> (30 to 38)
<223> Xaa is any amino acid residue

<400> 42

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 43
<211> 39
<212> PRT
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 <222> (30 to 39)
 <223> Xaa is any amino acid residue

<400> 43

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35

<210> 44
 <211> 40
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 <223> Xaa is Gly, Ala or D-Ala

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 <223> Xaa is Lys or D-Lys

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 <222> (30 to 40)
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 <400> 44

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
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 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 45
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<220>
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 <222> (30 to 41)
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<400> 45
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 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 46
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<400> 46

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 47

<211> 43

<212> PRT

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<222> (2)

<223> Xaa is D-Ala

<220>

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<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

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<222> (9)

<223> Xaa is Ser or Ala

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<222> (10)

<223> Xaa is D-Tyr

<220>

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<222> (15)

<223> Xaa is Gly, Ala or D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

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<222> (30 to 43)

<223> Xaa is any amino acid residue

<400> 47

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

<210> 48
 <211> 44
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<220>
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<220>
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 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
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 <222> (30 to 44)
 <223> Xaa is any amino acid residue

<400> 48

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 49
 <211> 29
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<222> (10)
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<400> 49

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg
20 25

<210> 50
<211> 30
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<223> Xaa is D-Tyr

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<223> Xaa is D-Ala

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<221> misc_feature

<222> (30)

<223> Xaa is any amino acid residue

<400> 50

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa
20 25 30

<210> 51

<211> 31

<212> PRT

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<221> misc_feature

<222> (8)

<223> Xaa is Asn, D-Asn or Ala

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<222> (9)

<223> Xaa is Ser or Ala

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<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is D-Ala

<220>

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<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature
 <222> (30 and 31)
 <223> Xaa is any amino acid residue

<400> 51

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa
 20 25 30

<210> 52
 <211> 32
 <212> PRT
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 <223> Xaa is Ser or Ala

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 <223> Xaa is D-Tyr

<220>
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 <222> (15)
 <223> Xaa is D-Ala

<220>
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 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
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 <222> (30 to 32)
 <223> Xaa is any amino acid residue

<400> 52

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

<210> 53

<211> 33
<212> PRT
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<223> Xaa is Asn, D-Asn or Ala

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<222> (9)
<223> Xaa is Ser or Ala

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<223> Xaa is D-Tyr

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<222> (15)
<223> Xaa is D-Ala

<220>
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<222> (21)
<223> Xaa is Lys or D-Lys

<220>
<221> misc_feature
<222> (30 to 33)
<223> Xaa is any amino acid residue

<400> 53

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa

<210> 54
<211> 34
<212> PRT
<213> Artificial sequence

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 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

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 <222> (10)
 <223> Xaa is D-Tyr

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 <222> (15)
 <223> Xaa is D-Ala

<220>
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 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
 <221> misc_feature
 <222> (30 to 34)
 <223> Xaa is any amino acid residue

<400> 54

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa

<210> 55
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 <212> PRT
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<220>
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 <222> (10)
 <223> Xaa is D-Tyr

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 <222> (15)
 <223> Xaa is D-Ala

<220>
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 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
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 <222> (30 to 35)
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<400> 55

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa
 35

<210> 56
 <211> 36
 <212> PRT
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 <223> Xaa is Asn, D-Asn or Ala

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 <223> Xaa is Ser or Ala

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 <222> (10)
 <223> Xaa is D-Tyr

<220>
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 <222> (15)

<223> Xaa is D-Ala

<220>

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<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 36)

<223> Xaa is any amino acid residue

<400> 56

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa
35

<210> 57

<211> 37

<212> PRT

<213> Artificial sequence

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<222> (8)

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<222> (9)

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<222> (10)

<223> Xaa is D-Tyr

<220>

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<222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 37)
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<400> 57

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa
35

<210> 58
<211> 38
<212> PRT
<213> Artificial sequence

<220>
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<223> Xaa is Asn, D-Asn or Ala

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<223> Xaa is Ser or Ala

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<222> (10)
<223> Xaa is D-Tyr

<220>
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<222> (15)
<223> Xaa is D-Ala

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<222> (21)
<223> Xaa is Lys or D-Lys

<220>
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<222> (30 to 38)
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<400> 58

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1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 59
<211> 39
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<222> (10)
<223> Xaa is D-Tyr

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<222> (15)
<223> Xaa is D-Ala

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<222> (21)
<223> Xaa is Lys or D-Lys

<220>
<221> misc_feature
<222> (30 to 39)
<223> Xaa is any amino acid residue

<400> 59

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1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 60
<211> 40
<212> PRT
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<223> Xaa is Ser or Ala

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<222> (10)

<223> Xaa is D-Tyr

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<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 40)

<223> Xaa is any amino acid residue

<400> 60

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 61

<211> 41

<212> PRT

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<223> Xaa is Lys or D-Lys

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<222> (30 to 41)

<223> Xaa is any amino acid residue

<400> 61

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

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<223> Xaa is D-Tyr

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<222> (21)

<223> Xaa is Lys or D-Lys

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<222> (30 to 42)

<223> Xaa is any amino acid residue

<400> 62

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 63

<211> 43

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<223> Xaa is D-Tyr

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<222> (21)

<223> Xaa is Lys or D-Lys

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<222> (30 to 43)

<223> Xaa is any amino acid residue

<400> 63

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

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<222> (8)

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<222> (10)

<223> Xaa is D-Tyr

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<222> (30 to 44)

<223> Xaa is any amino acid residue

<400> 64

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln

1	5	10	15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa			
	20	25	30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa			
	35	40	

<210> 65
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 <223> Xaa is Ser or Ala

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 <222> (30)
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 <400> 65

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln			
1	5	10	15
Leu Ser Ala Arg Xaa Xaa Leu Gln Asp Ile Met Ser Arg Xaa			
	20	25	30

<210> 66
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<400> 66
 Tyr Xaa Asp Ala Ile Phe Thr Asn Ser Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Lys Lys Leu Gln Asp Ile Met Ser Arg Xaa
 20 25 30

<210> 67
 <211> 30
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 <223> Xaa is Tyr or D-Tyr

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<223> xaa is Gly, Ala or D-Ala

<220>

<221> misc_feature

<222> (22)

<223> Xaa is Leu, D-Leu, Lys or Ala

<220>

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<223> Xaa is a bond or any amino acid sequence of 1 up to 15 residues

<400> 67

Tyr Xaa Asp Ala Ile Phe Thr Xaa Ser Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Lys Xaa Leu Gln Asp Ile Met Ser Arg Xaa
20 25 30